
UN-LINKS 2012
United Nations Library and Information Network for Knowledge Sharing

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http://data.fao.org is a one-stop shop that aggregates, integrates, and catalogues data from multiple sources within the Organization.

These entries cover topics related to nutrition, food and agriculture.

Data includes statistics, maps, pictures, documents and more.
Navigate - Topics

Animal Production & Health
5 sub topics

Economics & Policy
4 sub topics

Education & Extension
4 sub topics

Animal diseases & Control

Animal genetic resources & Breeding

Animal Health

Animal nutrition & Feeds

Production & Livestock
## Navigate - Places

<table>
<thead>
<tr>
<th>Places</th>
<th>Places</th>
<th>Places</th>
<th>Places</th>
</tr>
</thead>
<tbody>
<tr>
<td>Afghanistan</td>
<td>Africa</td>
<td>Africa - Inland waters</td>
<td>Albania</td>
</tr>
<tr>
<td>Algeria</td>
<td>America, North - Inland waters</td>
<td>America, South - Inland waters</td>
<td>Americas</td>
</tr>
<tr>
<td>Andean Community</td>
<td>Andorra</td>
<td>Angola</td>
<td>Antarctic areas nei</td>
</tr>
<tr>
<td>Antarctica - Inland Waters</td>
<td>Antigua and Barbuda</td>
<td>Arab Maghreb Union</td>
<td>Arctic Sea</td>
</tr>
<tr>
<td>Argentina</td>
<td>Armenia</td>
<td>Asia</td>
<td>Asia - Inland waters</td>
</tr>
</tbody>
</table>
Mobile First Responsive Design
Engage, not just disseminate

Global Ecological Zones

Geographic bounding box

North bound latitude

Value

11.979166

25 comments
Landing Page - Photos
Engage, not just disseminate

Near-record wheat production
But food prices rise for

Editing 220_2468

1 IMAGE

Label
Threshing wheat in Afghanistan
Width
220
Height
146

Threshing wheat in Afghanistan Picture

IMAGE

Description
Engage, not just disseminate
Engage, not just disseminate

Login and share with popular Social Networks:
- Google+
- Facebook
- Twitter

Expertise at FAO:
- Curate
- Create
- Link, Tag, Share
- Comment

We Need YOU!
STATISTICAL PROCESSING

FREQUENCY OF DATA COLLECTION

Under the coordination of FAO data owners, data reports are periodically received from every 5 to 10 years to typically annual data and to short-term statistics on a monthly/weekly or even daily basis. See also FAOSTAT statistical domains for details.

DATA COLLECTION METHOD


RELEVANCE

RELEVANCE - USER NEEDS

Targeted audience: Stakeholders with interest on current and upcoming food and agriculture issues: high-level policy decision makers, media, research community, donor community at national, regional and global level.
TAG THIS PAGE

Type to select from a list of existing tags, and press enter to select. Alternatively enter your own new tags (requires system approval).

- system tags
- user tags

*forest*
data.fao.org - The Big Picture

Website

Services and Widgets

Specialised application(s) consume/provide

Orchestration and Integration

Search
- Full text
- Structured

Catalogue
- Identity
- Metadata
- Linked Data
...

Statistics
- Statistical Data Warehouse
- Time Series
- Indicators
- Observations

Maps
- Geospatial
- Raster
- Vector
- Point

Content
- Documents
- Pictures
- Video
- Multimedia
- Pages

Infrastructure
- Logging
- Caching
- Security
- Audit
...

24/10/2012 data.fao.org - 2012 UN-LINKS 21
Integrate, don't reimplement

Data Source

Data Source

Data Source

Ingest

Harmonise
Integrate
Enrich

Publish

24/10/2012
data.fao.org - 2012 UN-LINKS
<table>
<thead>
<tr>
<th>Asset</th>
<th>Standards / Formats</th>
</tr>
</thead>
<tbody>
<tr>
<td>Statistics</td>
<td>SDMX, DDI</td>
</tr>
<tr>
<td>Maps</td>
<td>OGC, ISO19115</td>
</tr>
<tr>
<td>Documents</td>
<td>Dublin Core, MODS, FRBR</td>
</tr>
<tr>
<td>Pictures</td>
<td>IPTC, XMP</td>
</tr>
<tr>
<td>Tags .......</td>
<td>more</td>
</tr>
</tbody>
</table>
Types of Metadata

- **Structural**, typically derived from physical data, organization and/or structure. Examples include the dimensions of a data cube, number of facts in a data set or image file format.

- **Reference**, describes the data and is the information used to understand the data. Examples include title, author, subjects, keywords, publisher, method of collection and processing, data source and references.

- **Administrative**, technical information regarding the data storage and rights management including: ownership, permissions, visibility, security, rights back up, audit, and preservation.

- **Social**, describes how the community consume, use and categories the data. Examples include: number of citations, download counts, user rating, comments and tagging.
Catalogue, UUIDs and APIs

Every asset is registered in the Catalogue with a Universally Unique Identifier (UUID).

**UUID**:11ff9540-be95-46c6-b2bc-c5874d21d4d1

With a corresponding URI [http://ref.data.fao.org/<UUID>](http://ref.data.fao.org/<UUID>)

Assets can also be accessible and managed through their uniform resource name (URN)

**URN**:faodata:dataset:faostat:cropprd

Catalog APIs

The catalog APIs provide a way to access and browse all of the resources stored in the catalogue. They represent a parametric interface on Catalog REST and SOAP services that you can query using a method name base.

To access different services, use the following path:

http://api.data.fao.org/catalog/<api-method>

There are different API methods, such as:

- The 'resource' method:
  Allows you to browse catalog resources. The path is: http://api.data.fao.org/catalog/resource/<function-name>.<ext>/?<parameters>

- The 'named-query' method:
  Allows you to execute a sparql query to directly get specific sets of catalog resources. The path is: http://api.data.fao.org/catalog/named-query.<ext>/?<parameters>

- The 'type-descriptor' method:
  Allows you to obtain a resource type descriptor. The path is: http://api.data.fao.org/catalog/type-descriptor.<ext>/?<parameters>

- The 'find-uri' method:
  Allows you to obtain a resource URI by resource name. The path is: http://api.data.fao.org/catalog/find-uri?<parameters>

To obtain a list of the provided services by example, see the example page.
APIS, Widgets and Embedded Content

faoData Widgets
Library
- Overview
- What's new
- Migration

- Documentation
  - Development Technology
  - Browser compatibility
  - Library infrastructure
  - Widgets architecture
  - Widgets Hierarchy
  - How to use the library
- JavaScript Widgets
- Adobe Flash Widgets
- Error codes

- Examples
  - Data Widgets
    - DataSelect
    - DataList
    - DataMapper
    - DataTable
    - Speedometer
    - Figurebar
  - Charts
    - Localization Widgets
    - Digital Assets Widgets
    - Geospatial Widgets
    - Flash Widgets

Examples
FIGUREBAR

SVG shapes
- 90%

Bitmaps
- 90%

GDP
12 015
[millions of US dollars]

MAP IMAGE
Loading of a map thumbnail

#FAOdata

24/10/2012
Key Water Indicator Portal

UN WATER Day 2012

BRAZIL

Key statistics
- Country area: 434,209 km²
- Population: 69,140,000
- GDP: 2.86 billion (US$ millions)
- GDP per capita: 8,552 (US$)
- Human Development Index: 0.620
- Global Hunger Index: 0.0

List of indicators for Brazil

<table>
<thead>
<tr>
<th>Indicator</th>
<th>Value</th>
<th>Unit</th>
</tr>
</thead>
<tbody>
<tr>
<td>Total actual renewable water resources per capita</td>
<td>14,004.00</td>
<td>m³/yr</td>
</tr>
<tr>
<td>Domestic water withdrawal as a percent of total withdrawal</td>
<td>44.1%</td>
<td>2010</td>
</tr>
<tr>
<td>Municipal water withdrawal as a percent of total withdrawal</td>
<td>37.0%</td>
<td>2000</td>
</tr>
<tr>
<td>Agricultural water withdrawal as a percent of total withdrawal</td>
<td>25.1%</td>
<td>2000</td>
</tr>
<tr>
<td>Percent of population with access to improved water sources</td>
<td>32.0%</td>
<td>2000</td>
</tr>
<tr>
<td>Percent of population with access to improved sanitation</td>
<td>19.6%</td>
<td>2000</td>
</tr>
</tbody>
</table>

World Water Day

24/10/2012

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finding data will be this easy...

Release One
12 December 2012

For more information, visit us at data.fao.org
Thank you for listening ...

Questions?